

NORTH DAKOTA TRAFFIC TRENDS: 1993-2002



MOTOR VEHICLE REGISTRATIONS

THOUSANDS OF VEHICLES:

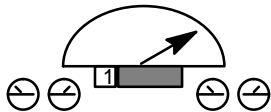
680	688	696	696	696	688	720	715	735	728
1993	1994	1995	1996	1997	1998	1999	2000	2001	2002



LICENSED DRIVERS

THOUSANDS OF DRIVERS:

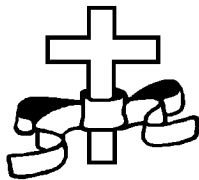
437.9	439.3	448.8	449.2	452.1	454.9	457.9	458.9	455.9	456.3
1993	1994	1995	1996	1997	1998	1999	2000	2001	2002



VEHICLE MILES TRAVELED

BILLIONS OF MILES:

6.20	6.39	6.63	6.77	6.89	7.09	7.10	7.06	7.09	7.09
1993	1994	1995	1996	1997	1998	1999	2000	2001	2002



FATALITIES

NUMBER OF FATALITIES:

89	88	74	85	105	92	119	86	105	97
1993	1994	1995	1996	1997	1998	1999	2000	2001	2002



INJURIES

THOUSANDS OF INJURED:

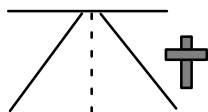
5.51	5.66	5.74	6.02	5.90	4.92	4.96	4.61	4.61	4.89
1993	1994	1995	1996	1997	1998	1999	2000	2001	2002



CRASHES

THOUSANDS OF CRASHES:

12.94	14.03	14.28	15.96	16.66	14.42	14.43	14.52	14.76	16.11
1993	1994	1995	1996	1997	1998	1999	2000	2001	2002



MILEAGE FATALITY RATE

FATALITIES PER 100 MILLION VEHICLE MILES:

1.43	1.38	1.14	1.26	1.53	1.29	1.64	1.18	1.47	1.37
1993	1994	1995	1996	1997	1998	1999	2000	2001	2002

Types of North Dakota Traffic Crashes • 2002

First Harmful Event	All Crashes		Fatal Crashes		Injury Crashes		Property Damage Only Crashes	
	Number	% of Total	Number	% of Total	Number	% of Total	Number	% of Total
Animal	4,019	29.9	1	1.2	60	1.8	3,958	31.0
Bridge/Guardrail	275	1.7	1	1.2	45	1.4	229	1.8
Fire/Explosion	59	0.4	–	–	1	–	58	0.5
Fixed Object	1,005	6.2	11	13.1	305	9.4	689	5.4
Other Non-Collision	131	0.8	1	1.2	20	0.6	110	0.9
Other Obj./Not Fixed	60	0.4	–	–	7	0.2	53	0.4
Overturning	1,091	6.8	24	28.6	523	16.1	544	4.3
Parked Motor Veh.	1,054	6.5	–	–	84	2.6	970	7.6
Pedalcyclist	59	0.4	1	1.2	55	1.7	3	–
Pedestrian	78	0.5	2	2.4	76	2.3	–	–
Sign/Post	607	3.8	3	3.6	104	3.2	500	3.9
Struck Other MV	7,653	47.5	40	47.6	1,960	60.3	5,653	44.2
Train	23	0.1	–	–	12	0.4	11	–
TOTAL CRASHES	16,114	–	84	–	3,252	–	12,778	–

Violations of All Drivers Involved in Traffic Crashes • 2002

Violation/ Circumstance	Citations In All Crashes			Citations In Fatal Crashes			Citations In Injury Crashes		
	Urban	Rural	Total	Urban	Rural	Total	Urban	Rural	Total
D.U.I.	320	266	586	2	5	7	139	180	319
Care Required	1,166	944	2,110	1	1	2	274	302	576
Careless Driving	66	85	151	–	1	1	23	38	61
Failed to Yield	1,374	223	1,597	–	1	1	370	93	463
Failed to Stop	540	38	578	–	1	1	178	17	195
Following	575	79	654	–	2	2	147	15	162
Improper Turning	371	55	426	–	–	–	79	14	93
Improper Backing	151	41	192	–	–	–	10	5	15
Overtaking	27	38	65	–	–	–	6	13	19
Wrong Way	10	5	15	–	–	–	3	1	4
Speeding	15	6	21	–	–	–	2	1	3
Defective Equipment	9	11	20	–	–	–	1	3	4
Illegal Parking	–	4	4	–	–	–	–	2	2
Open Container	2	1	3	–	–	–	–	1	1
Drivers License	69	42	111	–	–	–	24	18	42
Left Crash Scene	117	72	189	–	–	–	27	15	42
Other	670	277	947	–	2	2	174	97	271
None	9,429	3,337	12,766	12	97	109	2,380	817	3,197
TOTALS	14,911	5,524	20,435	15	110	125	3,837	1,632	5,469

Driver Involvement by Age • 2002

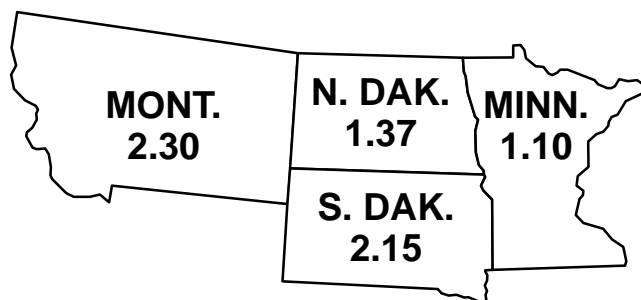
Age	Licensed Drivers		Involved in All Crashes		Involved in Fatal Crashes		Involved in Injury Crashes	
	Number	% of Total	Number	% of Total	Number	% of Total	Number	% of Total
13 and under	—	—	18	0.1	—	—	8	0.1
14-17	18,513	4.1	2,633	10.9	8	6.4	658	12.0
18-20	27,728	6.1	3,234	13.3	12	9.6	791	14.5
21-24	36,863	8.1	2,864	11.8	14	11.2	720	13.2
25-34	70,655	15.5	3,690	15.2	17	13.6	870	15.9
35-44	83,358	18.3	3,835	15.8	22	17.6	833	15.2
45-54	87,802	19.2	3,432	14.1	20	16.0	689	12.6
55-64	54,927	12.0	1,866	7.7	9	7.2	364	6.7
65-74	40,987	9.0	1,196	4.9	13	10.4	247	4.5
75 and older	35,438	7.7	1,004	4.1	10	8.0	232	4.2
Unknown	—	—	494	2.1	—	—	57	1.1
TOTAL	456,271	—	24,266	—	125	—	5,469	—

Age and Sex of Fatalities and Persons Injured • 2002

Age	Total Fatalities		Pedestrian Fatalities		Pedalcyclist Fatalities		Total Injuries		Pedestrian Injuries		Pedalcyclist Injuries	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
0-4	—	—	—	—	—	—	41	41	1	—	—	—
5-9	—	—	—	—	—	—	56	48	6	1	6	2
10-13	—	1	—	—	—	—	60	69	5	4	14	4
14-17	5	3	—	—	—	—	288	439	6	9	3	3
18-20	7	6	—	—	—	—	346	316	4	4	7	1
21-24	5	2	—	—	—	—	321	270	6	3	3	—
25-34	7	4	—	1	—	—	329	347	5	4	3	3
35-44	7	6	—	—	—	—	298	326	4	2	1	—
45-54	8	5	—	—	—	1	247	279	8	3	1	—
55-64	7	—	1	—	—	—	121	155	3	1	—	—
65-74	7	3	—	—	—	—	91	121	1	3	—	—
75 & older	7	7	—	—	—	—	100	104	4	1	1	1
Unknown	—	—	—	—	—	—	34	36	—	—	—	1
TOTAL	60	37	1	1	—	1	2,332	2,551	53	35	39	15

2002 Traffic Crash Fatality Rate Estimates*

How Do We Compare?



NATIONAL 1.50

* Rate is based on deaths per 100 million vehicle miles traveled. Preliminary estimates as of April 2003.

2002 Facts and Figures for North Dakota

97 persons were killed and 4,886 were injured in motor vehicle traffic crashes.

5.3% of all licensed drivers in North Dakota were involved in a traffic crash.



A reportable crash occurred every 32.6 minutes.

One person was injured every 1.8 hours.

One person was killed every 3.8 days.

The ratio of injured to killed was 4,886 to 97 or 50 to 1.

29% of all fatalities were between the ages of 14 and 24.

62% of all fatalities were male.

51% of the fatal crashes involved a single motor vehicle.

31% of the fatal crashes occurred on Saturday and Sunday.

56% of the fatal crashes occurred during daylight hours.

76% of the fatal crashes occurred on dry surface with clear/cloudy weather conditions.

27% of all drivers involved in fatal crashes were under 25 years of age.

55% of the vehicles involved in crashes were passenger cars.

The total number of registered motorcycles in 2002 was 17,701 compared to 18,024 in 2001.

Of the 143 motorcycles involved in crashes, 1 was involved in fatal crashes and 120 were involved in injury crashes.

Of the 58 pedalcycles involved in crashes, 1 was involved in a fatal crash and 55 were involved in injury crashes.

Of the 34 school buses involved in crashes, none were involved in a fatal crash and 9 were involved in injury crashes.

24 emergency vehicles were involved in crashes; none were involved in a fatal crash and 9 were involved in injury crashes.

2% of the traffic fatalities were pedestrians.

88% of those partially or totally ejected from the vehicle were killed or injured.

0.4% of those not ejected from the vehicle were killed.

Throughout this publication, traffic crashes are those which must, according to state law, be reported. This includes all motor vehicle crashes resulting in death, personal injury, or property damage in excess of \$1,000.

When North Dakota Fatal Traffic Crashes Occurred • 2002

Fatal Crashes & Fatalities by Day		
Day of Week	No. of Crashes	No. Killed
Sunday	10	12
Monday	7	9
Tuesday	11	12
Wednesday	15	16
Thursday	9	10
Friday	16	17
Saturday	16	21
TOTALS	84	97

Fatal Crashes & Fatalities by Month		
Month	No. of Crashes	No. Killed
January	7	7
February	6	7
March	3	4
April	5	7
May	7	8
June	5	7
July	9	11
August	9	10
September	16	17
October	4	4
November	8	9
December	5	6
TOTALS	84	97

Fatal Crashes & Fatalities by Time		
Time of Day	Number of Crashes	Number Killed
12:00-12:59 am	3	3
1:00-1:59 am	2	2
2:00-2:59 am	4	6
3:00-3:59 am	5	5
4:00-4:59 am	1	1
5:00-5:59 am	5	5
6:00-6:59 am	3	3
7:00-7:59 am	5	5
8:00-8:59 am	3	4
9:00-9:59 am	4	4
10:00-10:59 am	1	1
11:00-11:59 am	5	8
12:00-12:59 pm	3	4
1:00-1:59 pm	2	2
2:00-2:59 pm	2	3
3:00-3:59 pm	5	5
4:00-4:59 pm	4	4
5:00-5:59 pm	7	8
6:00-6:59 pm	5	5
7:00-7:59 pm	5	6
8:00-8:59 pm	3	5
9:00-9:59 pm	2	2
10:00-10:59 pm	—	—
11:00-11:59 pm	5	6
Unknown	—	—
TOTALS	84	97

Restraint Device Usage vs. Ejection Age Six and Over • 2002

Safety Equipment	Not Ejected		Partial Ejection		Total Ejection	
	Fat./Inj.	All	Fat./Inj.	All	Fat./Inj.	All
Not In Use	758	1,856	29	30	213	228
Lap Belt Only	40	254	2	3	—	—
Lap and Shoulder	1,487	9,337	1	1	7	22
Automatic Belts	13	51	—	—	1	1
Restraint Unknown	187	1,658	3	4	7	9
Other	36	105	1	1	2	2
TOTALS	2,521	13,261	36	39	230	262
Air Bag Deployed	398	808	2	2	14	14
AB* Not Deployed	721	5,339	7	7	46	52
No Air Bag(s)	1,406	7,127	30	33	210	238

*Air Bag

This document was produced and published through the efforts of the Drivers License and Traffic Safety Division of the North Dakota Department of Transportation. For further information, please contact:

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